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United States Patent Application Publication No. 6,585,409, page, \_\_\_\_\_ line \_\_\_\_\_.

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US006585409B2

(12) **United States Patent**  
Schmidt et al.

(10) Patent No.: **US 6,585,409 B2**  
(45) Date of Patent: **\*Jul. 1, 2003**

(54) **TEMPERATURE-MEASUREMENT DEVICE WITH DIFFRACTIVE OPTICS**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 10/039,758

(22) Filed: Oct. 27, 2001

(65) **Prior Publication Data**

US 2002/0061048 A1 May 23, 2002

*Please get*  
**Related U.S. Application Data**

(63) Continuation of application No. 08/636,369, filed on Oct. 20, 1997.

(30) **Foreign Application Priority Data**

Aug. 3, 1995 (DE) ..... 195 28 590  
Jul. 29, 1996 (WO) ..... PCT/EP96/03330

(51) **Int. Cl.** <sup>7</sup> G01K 1/00; G01J 5/02

(52) **U.S. Cl.** 374/121; 374/141; 33/DIG. 21;  
362/259; 250/491.1; 356/399

(58) **Field of Search** ..... 374/120, 121,  
374/124, 141, 208; 33/DIG. 21; 362/35,  
259; 356/49, 399; 250/491.1

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(57) **ABSTRACT**

A device for temperature measurement uses an optical system to image the heat radiation emanating from a measurement spot on an object of measurement onto a detector. A sighting arrangement is also provided which has a diffractive optical system by which a light intensity distribution is produced which corresponds to the position and size of the measurement spot on the object of measurement.

2 Claims, 7 Drawing Sheets

